ACF 02 02 218

VHF
Band FM
Radio Broadcasting

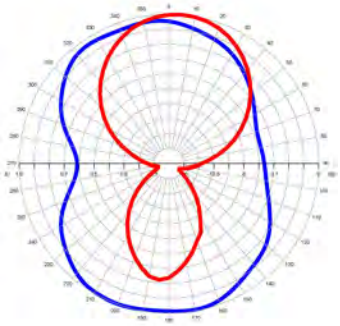
Antenna in alluminio a doppio dipolo incrociato.
Irradiazione pressoché omnidirezionale.
Adatta per sistemi collineari FM in alta potenza.
Banda larga 87.5 ÷ 108 MHz
Smontabile.
Pressurizabile.

Double-crossed dipole aluminium antenna.
Omnidirectional pattern with preffered direction.
Suitable for high power FM arrays.
Broadband 87.5 ÷ 108 MHz
Demountable.
Pressurizable.

ELECTRICAL DATA

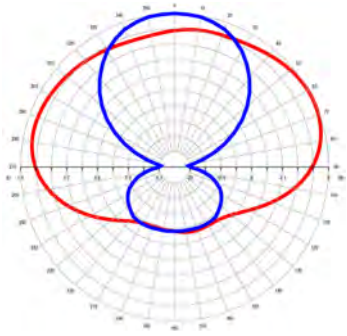
WORKING BAND: 87.5÷108 MHz
BANDWIDTH: FM band
GAIN: -0.25 dBd (1.95 dBi)
VSWR: ≤ 1.27:1 (-18.5 dB)
POLARIZATION: Circular
IMPEDANCE: 50 Ohm unbalanced
HALPOWER BEAMWIDTH:
Vertical component - E-Plane - 87°
Vertical component - H-Plane - 219°
Horizontal component - E-Plane - 91°
Horizontal component - H-Plane - 126°
LIGHTNING PROTECTION: all metal parts DC grounded including inner conductors
AVAILABLE VERSION AND CODE:
ACF0202218 - EIA 1 5/8" flange - max. 13000W

horizontal component



H-Plane and E-Plane

vertical component



H-Plane and E-Plane

MECHANICAL DATA

MATERIALS: bracket and bolts in hot galvanized steel, teflon isolators, silicon O-Rings, aluminum dipoles, body and internal line
MOUNTING: directly on supporting structure
MOUNTING BRACKETS: included for Ø 90÷150mm. pipe
ICING PROTECTION: teflon radome
TREATMENTS: hot galvanized bracket, dipoles and body military grade treated MIL-C-5541, silver-plated internal lines
PRESSURIZZATION: 5.0 psi
ANTENNA DIMENSIONS: 1155x1155x1580 mm
WEIGHT: 35 Kg
WIND SURFACE: 0.2 m^2 front - 0.34 m^2 side
WIND LOAD (at 160Km/h and 30° C air temperature): 16.53 Kg front - 28.11 Kg side
SURVIVAL WIND: 220Km/h
PACKING DIMENSIONS:
Box 2000x370x300 mm - 40Kg gross

ARRAY DATA

BAY	PANEL PER BAY	SYSTEM GAIN (dBd)[1]	GAIN TIMES[1]	WEIGHT (Kg)[2]	SYSTEM HEIGHT (mt)	WIND LOAD (Kg)[3]
2	1	2.75	1.88	107	3.5	56.2
4	1	5.75	3.76	217	8.9	112.4
6	1	7.55	5.69	341	13.8	168.7
8	1	8.75	7.5	487	19.0	224.9
12	1	10.55	11.35	732	28.6	337.3

1 - Gain referred at mid band -1st null filling and electrical tilt not take into account
2 - mounting hardware not take into account
3 - 160Km/h wind and 30° C air temperature

Issue 01/13

aldena
The Reliable Antennas